

12-17-01

PTO/SB/05 (08-00)

Approved for use through 10/31/2002. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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# UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

|                        |                           |
|------------------------|---------------------------|
| Attorney Docket No.    | ATMI-515                  |
| First Inventor         | CHONGYING XU              |
| Title                  | METHOD FOR REMOVAL OF ... |
| Express Mail Label No. | EL899898699US             |

**APPLICATION ELEMENTS**

See MPEP chapter 600 concerning utility patent application contents.

1.  Fee Transmittal Form (e.g., PTO/SB/17)  
*(Submit an original and a duplicate for fee processing)*
2.  Applicant claims small entity status.  
See 37 CFR 1.27.
3.  Specification [Total Pages 30]  
*(preferred arrangement set forth below)*
  - Descriptive title of the invention
  - Cross Reference to Related Applications
  - Statement Regarding Fed sponsored R & D
  - Reference to sequence listing, a table, or a computer program listing appendix
  - Background of the Invention
  - Brief Summary of the Invention
  - Brief Description of the Drawings (if filed)
  - Detailed Description
  - Claim(s)
  - Abstract of the Disclosure
4.  Drawing(s) (35 U.S.C. 113) [ Total Sheets 2 ]
5. Oath or Declaration [ Total Pages ]
- a.  Newly executed (original or copy)
- b.  Copy from a prior application (37 CFR 1.63 (d))  
*(for continuation/divisional with Box 17 completed)*
  - i.  **DELETION OF INVENTOR(S)**  
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
6.  Application Data Sheet. See 37 CFR 1.76

**ADDRESS TO:** Assistant Commissioner for Patents  
Box Patent Application  
Washington, DC 20231

7.  CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission  
*(if applicable, all necessary)*
  - a.  Computer Readable Form (CRF)
  - b. Specification Sequence Listing on:
    - i.  CD-ROM or CD-R (2 copies); or
    - ii.  paper
  - c.  Statements verifying identity of above copies

**ACCOMPANYING APPLICATION PARTS**

9.  Assignment Papers (cover sheet & document(s))
10.  37 CFR 3.73(b) Statement  Power of Attorney  
*(when there is an assignee)*
11.  English Translation Document (if applicable)
12.  Information Disclosure Statement (IDS)/PTO-1449  Copies of IDS Citations
13.  Preliminary Amendment
14.  Return Receipt Postcard (MPEP 503)  
*(Should be specifically itemized)*
15.  Certified Copy of Priority Document(s)  
*(if foreign priority is claimed)*
16.  Other: ....Express...Mail...Cert....

17. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

 Continuation     Divisional     Continuation-in-part (CIP)

of prior application No.: \_\_\_\_\_ / \_\_\_\_\_

Prior application information: Examiner \_\_\_\_\_

Group / Art Unit: \_\_\_\_\_

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

**18. CORRESPONDENCE ADDRESS**

|  |   |           |              |   |
|--|---|-----------|--------------|---|
| <input type="checkbox"/> Customer Number or Bar Code Label | 25559<br><i>(Insert Customer No. or Attach bar code label here)</i> |           | or           | <input type="checkbox"/> Correspondence address below |
| Name   | Margaret Chappuis   |           |              |   |
| Address  | Advanced Technology Materials, Inc.                                 |           |              |   |
|  | 7 Commerce Drive  |           |              |   |
| City   | Danbury   | State     | CT           | Zip Code  |
| Country  | US  | Telephone | 203-794-1100 | Fax 203-797-2544                                      |

|                   |                          |                                   |                    |
|-------------------|--------------------------|-----------------------------------|--------------------|
| Name (Print/Type) | Margaret Chappuis        | Registration No. (Attorney/Agent) | 45,735             |
| Signature         | <i>Margaret Chappuis</i> |                                   | Date Dec. 13, 2001 |

Burden Hour Statement This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

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12/13/01

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# FEE TRANSMITTAL for FY 2002

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT (\$ 1292.00)

## Complete if Known

|                      |              |
|----------------------|--------------|
| Application Number   |              |
| Filing Date          |              |
| First Named Inventor | Chongying Xu |
| Examiner Name        |              |
| Group Art Unit       |              |
| Attorney Docket No.  | ATMI-515     |

## METHOD OF PAYMENT

1.  The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:

Deposit Account Number 50-0860

Deposit Account Name Advanced Technology Materials, Inc.

 Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17 Applicant claims small entity status. See 37 CFR 1.27

2.  Payment Enclosed:

 Check  Credit card  Money Order  Other

## FEE CALCULATION

## 1. BASIC FILING FEE

Large Entity Small Entity

| Fee Code (\$) | Fee (\$) | Fee Code (\$) | Fee Description           | Fee Paid |
|---------------|----------|---------------|---------------------------|----------|
| 101           | 740      | 201           | 370 Utility filing fee    | 740.00   |
| 106           | 330      | 206           | 165 Design filing fee     |          |
| 107           | 510      | 207           | 255 Plant filing fee      |          |
| 108           | 740      | 208           | 370 Reissue filing fee    |          |
| 114           | 160      | 214           | 80 Provisional filing fee |          |

SUBTOTAL (1) (\$ 740.00)

## 2. EXTRA CLAIM FEES

|                    |    | Extra Claims | Fee from below | Fee Paid |
|--------------------|----|--------------|----------------|----------|
| Total Claims       | 46 | -20** = 26   | X 18.00        | = 468.00 |
| Independent Claims | 4  | -3** = 1     | X 84.00        | = 84.00  |
| Multiple Dependent |    |              |                |          |

Large Entity Small Entity

| Fee Code (\$) | Fee (\$) | Fee Code (\$) | Fee Description  |
|---------------|----------|---------------|--|
| 103           | 18       | 203           | 9 Claims in excess of 20                                     |
| 102           | 84       | 202           | 42 Independent claims in excess of 3                         |
| 104           | 280      | 204           | 140 Multiple dependent claim, if not paid                    |
| 109           | 84       | 209           | 42 ** Reissue independent claims over original patent        |
| 110           | 18       | 210           | 9 ** Reissue claims in excess of 20 and over original patent |

SUBTOTAL (2) (\$ 1292.00)

\*or number previously paid, if greater; For Reissues, see above

## 3. ADDITIONAL FEES

| Large Entity Fee Code (\$) | Small Entity Fee Code (\$) | Fee Description   | Fee Paid |
|----------------------------|----------------------------|---|----------|
| 105                        | 130                        | 205 65 Surcharge - late filing fee or oath  |          |
| 127                        | 50                         | 227 25 Surcharge - late provisional filing fee or cover sheet                     |          |
| 139                        | 130                        | 139 130 Non-English specification   |          |
| 147                        | 2,520                      | 147 2,520 For filing a request for ex parte reexamination                         |          |
| 112                        | 920*                       | 112 920* Requesting publication of SIR prior to Examiner action                   |          |
| 113                        | 1,840*                     | 113 1,840* Requesting publication of SIR after Examiner action                    |          |
| 115                        | 110                        | 215 55 Extension for reply within first month                                     |          |
| 116                        | 400                        | 216 200 Extension for reply within second month                                   |          |
| 117                        | 920                        | 217 460 Extension for reply within third month                                    |          |
| 118                        | 1,440                      | 218 720 Extension for reply within fourth month                                   |          |
| 128                        | 1,960                      | 228 980 Extension for reply within fifth month                                    |          |
| 119                        | 320                        | 219 160 Notice of Appeal  |          |
| 120                        | 320                        | 220 160 Filing a brief in support of an appeal                                    |          |
| 121                        | 280                        | 221 140 Request for oral hearing  |          |
| 138                        | 1,510                      | 138 1,510 Petition to institute a public use proceeding                           |          |
| 140                        | 110                        | 240 55 Petition to revive - unavoidable   |          |
| 141                        | 1,280                      | 241 640 Petition to revive - unintentional  |          |
| 142                        | 1,280                      | 242 640 Utility issue fee (or reissue)  |          |
| 143                        | 460                        | 243 230 Design issue fee  |          |
| 144                        | 620                        | 244 310 Plant issue fee   |          |
| 122                        | 130                        | 122 130 Petitions to the Commissioner   |          |
| 123                        | 50                         | 123 50 Processing fee under 37 CFR 1.17(q)  |          |
| 126                        | 180                        | 126 180 Submission of Information Disclosure Stmt                                 |          |
| 581                        | 40                         | 581 40 Recording each patent assignment per property (times number of properties) |          |
| 146                        | 740                        | 246 370 Filing a submission after final rejection (37 CFR § 1.129(a))             |          |
| 149                        | 740                        | 249 370 For each additional invention to be examined (37 CFR § 1.129(b))          |          |
| 179                        | 740                        | 279 370 Request for Continued Examination (RCE)                                   |          |
| 169                        | 900                        | 169 900 Request for expedited examination of a design application                 |          |

Other fee (specify) \_\_\_\_\_

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$)

## SUBMITTED BY

|                   |                          |                                      |        |           |              |
|-------------------|--------------------------|--------------------------------------|--------|-----------|--------------|
| Name (Print/Type) | Margaret Chappuis        | Registration No.<br>(Attorney/Agent) | 45,735 | Telephone | 203-794-1100 |
| Signature         | <i>Margaret Chappuis</i> |                                      |        |           |              |
| Date              | Dec. 13, 2001            |                                      |        |           |              |

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

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In re application of Chongying Xu, et al.

**TITLE : METHOD FOR REMOVAL OF IMPURITIES IN CYCLIC SILOXANES USEFUL AS PRECURSORS FOR LOW DIELECTRIC CONSTANT THIN FILMS**

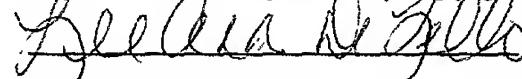
Express Mail Certificate

"Express Mail" mailing label number: EL899899371US

Date of Deposit: December 13, 2001

I hereby certify that this new patent application with filing fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to BOX PATENT APPLICATION, Assistant Commissioner for Patents, Washington, DC 20231.

Lee Ann DiLello  
(Typed or printed name of person mailing paper or fee)



(Signature of person mailing paper or fee)